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ABSTRACT OF THE DISCLOSURE

1   In an optical network, a logical channel is established between two

2   optical switches in response to a control message over multiple optical links.

3   At least one optical transmission element is connected in the links for

4   establishing a number of paths between the first and second optical switches.

5   A controller, associated with the optical transmission element, has a memory

6   in which it creates an entry in response to the control message for mapping a

7   number of sets of attributes of each logical channel to a corresponding

8   number of reference optical intensity values. A number of such entries are

9   created in the memory when multiple logical channels are established

10   through the network. From the memory, the controller measures the optical

11   intensity of each optical link and compares it with the reference optical

12   intensity value mapped in the memory to the logical channels accommodated

13   in the measured link and performs management of the optical transmission

14   element based on the result of the comparison.